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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29886

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): C12Q 1/68 US CL: 42.5/6 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIEL	DS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 425/6					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
Х, Р	SHAW et al. Comparison of the changes in global of four bactericidal agents. date. J. Mol. Microbiol. B 105-122, entire document.		1-3, 5-9, 12-16, 19, 20- 22		
Y	BELCHER et al. The transcriptional responses of respiratory epithelial cells to bordetella pertusis reveal host defensive and pathogen counter-defensive strategies. PNAS. 05 December 2000, Vol. 97, No. 25, pages 13847-13852, entire document.				
Y	HENSEL et al. Simultaneous iidentification of bacterial virulence genes by negative selection. Science. 21 July 1995, Vol. 269, pages 400-404, entire document.		1-22		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
	pecial categories of cited documents:	"I" later document published after the intern			
"A" document	defining the general state of the art which is not considered to be of relevance	and not in conflict with the application by principle or theory underlying the inventi	ion. ·		
	dication or patent published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be considered when the document is taken alone	imed invention cannot be I to involve an inventive step		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the cla considered to involve an inventive step with one or more other such documents,	when the document is combined		
"O" document	referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art	pust schrimacar some opvisus		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search					
13 May 2005 (13.05.2005)					
Mail Com P.O.	ulling address of the ISA/US I Stop PCT, Attn: ISA/US unissioner for Patents Box 1450	Authorized officer Hearing G Calamita	gwy		
P.O. BOX 1430 Alexandria, Virginia 22313-1450 Facsimile No. 571.273.8300					
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29886

Box No.	II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3	Claims Nos.; because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No.	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
	ational Searching Authority found multiple inventions in this international application, as follows: Continuation Sheet .		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Remark or	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/29886
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKIN This application contains the following inventions or groups of inventions which are concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate the second of the secon	not so linked as to form a single general inventive priate additional examination fees must be paid.
Group 1, claim(s) 1-12, drawn to a method for detecting changes in gene expression Group 2, claim(s) 13-22, drawn to a method for analyzing gene expression of multip	
The inventions listed as Groups 1 and 2 do not relate to a single general inventive of Rule 13.2, they lack the same or corresponding special technical features for the following relate to a single general inventive concept under PCT Rule 13.1 because, a corresponding special technical features for the following reasons: The methods of at least claim 1 is not joined to the methods of at least claims 13 and detecting changes in gene expression of multiple distinct organisms. This is not a spin expression of multiple distinct organisms. This is not a spin ventions because Belcher et al. (PNAS, 2000) teach detecting changes in gene expression of the methods of at least claims 13 and 21 are not least claim 1, and therefore are not joined to at least claims 13 and 21 by a special te	concept under PCT Rule 13.1 because, under PCT lowing reasons: The inventions listed as Groups 1 and under PCT Rule 13.2, they lack the same or 121. The methods of at least claim 1 is drawn to pecial technical feature which joins the claimed ression of multiple distinct organisms (epithelial limited in scope so as to require the methods of at

Continuation of B. FIELDS SEARCHED Item 3: Medline, Science Direct

pooled sample, mixed infection, gene expression, cross species hybridization